

04-16-01

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J1035 U.S. PTO  
04/12/01Please type a plus sign (+) inside this box ☐

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Jc682 U.S. PTO  
09/834373  
04/13/01UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

First Inventor

Nathaniel J. Fisch

Title

Segmented Electrode Hall Thruster...

Express Mail Label No.

EK901084284US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202311. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification [Total Pages 16]  
(preferred arrangement set forth below)  
- Descriptive title of the invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table,  
or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]

5. Oath or Declaration [Total Pages ]

a. ☐ Newly executed (original or copy)  
b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).6. ☐ Application Data Sheet. See 37 CFR 1.76

- 7.
- ☐
- CD-ROM or CD-R in duplicate, large table or
- 
- Computer Program (Appendix)
- 
8. Nucleotide and/or Amino Acid Sequence Submission
- 
- (if applicable, all necessary)
- 
- a.
- ☐
- Computer Readable Form (CRF)
- 
- b. Specification Sequence Listing on:
- 
- i.
- ☐
- CD-ROM or CD-R (2 copies); or
- 
- ii.
- ☐
- paper
- 
- c.
- ☐
- Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

- 9.
- ☐
- Assignment Papers (cover sheet & document(s))
- 
- 10.
- ☐
- 37 CFR 3.73(b) Statement of Power of Attorney
- 
- (when there is an assignee)
- 
- 11.
- ☐
- English Translation Document (if applicable)
- 
- 12.
- ☐
- Information Disclosure Statement (IDS)/PTO-1449
- 
- 13.
- ☐
- Preliminary Amendment
- 
- 14.
- ☒
- Return Receipt Postcard (MPEP 503)
- 
- (Should be specifically itemized)
- 
- 15.
- ☐
- Certified Copy of Priority Document(s)
- 
- (if foreign priority is claimed)
- 
- 16.
- ☐
- Nonpublication Request under 35 U.S.C. 122
- 
- (b)(2)(B)(i). Applicant must attach form PTO/SB/35
- 
- or its equivalent.
- 
- 17.
- ☐
- Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

Prior application information:

Examiner

of prior application No.:

Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under  
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  
The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

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Nathaniel J. Fisch

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Fax

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Nathaniel J. Fisch

Registration No. (Attorney/Agent)

Signature

Date

4/11/01

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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$355.00)

## Complete if Known

Application Number	
Filing Date	
First Named Inventor	Nathaniel J. Fisch
Examiner Name	
Group Art Unit	
Attorney Docket No.	

## METHOD OF PAYMENT

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number	
Deposit Account Name	

- ☐
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
- 
- ☐
- Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	710	201	355	Utility filing fee	\$355
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$355.00)

## 2. EXTRA CLAIM FEES

	Extra Claims	Fee from below	Fee Paid
Total Claims	-20** =	X	
Independent Claims	- 3** =	X	
Multiple Dependent			

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

## SUBMITTED BY

Name (Print/Type)	Nathaniel J. Fisch	Registration No. (Attorney/Agent)		Telephone	609-924-5384
Signature				Date	4/12/01

Complete (if applicable)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents  
Box Patent Application  
Washington, D.C. 20231

Date: April 12, 2001

Re: Segmented Electrode Hall Thruster with Reduced Plume  
Nathaniel J. Fisch and Yevgeny Raitses

Sir:

Enclosed for filing in the United States Patent and Trademark Office is the following:

Utility Patent Application Transmittal

Fee transmittal form and check No. 5344 in the amount of \$355.00.

Specifications - 16 pages

Drawings - 4

Declaration for utility or design patent application

Postcard receipt

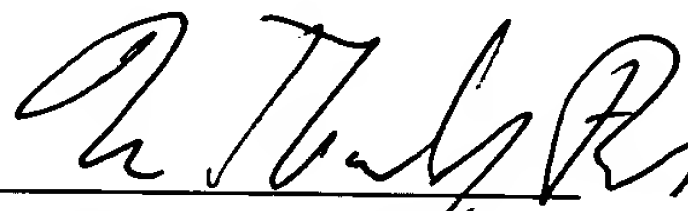
Respectfully submitted,



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I hereby certify that this correspondence is being deposited with the United States Postal Service, postage prepaid, as "Express Mail Post Office to Addressee," Mailing label No. EK901084284US to Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231 on April 13, 2001.

By:



Nathaniel J. Fisch